

1 (currently amended). An apparatus for use in analyzing video
2 images, comprising:

3 a video input signal providing a video signal to be analyzed, the video
4 input signal including at least one of successive picture frames and fields
5 containing a video picture;

6 a video processor operable to produce a display of information on a
7 display device at least partly from the video input signal ~~[-] , wherein the~~
8 display of information comprises a repetitively composed formatted
9 display of images that is changed between modes in which the formatted
10 display contains one of:

11 ~~a controller coupled to the video processor and to at least one control~~
12 ~~input, the controller being operable to control the information displayed by the~~
13 ~~video processor;~~

14 ~~wherein the video processor is operable to produce a formatted display~~
15 ~~of selectable data images for presentation on a display device wherein the~~
16 ~~formatted display comprises a changeable selection of one of:~~

17 a full representation of the video picture contained in the video
18 input signal, selectively presented so as to occupy at least a portion of a
19 display area of the formatted display;

20 a zoom image including an area of particular scrutiny in said
21 video picture, selectively presented so as to occupy at least a portion of
22 the display area of the formatted display;

23 a report of video data characteristics of at least one point within
24 said area of particular scrutiny;

25 a subset of said full representation, said zoom image and said
26 report; and,

27 ~~wherein the video processor is operable automatically to change the~~
28 ~~area of particular scrutiny and automatically to select said changeable~~

29 ~~selection of the formatted display, when predetermined criteria are determined~~
30 ~~to be met by said video picture~~

31 wherein a controller coupled to the video processor and to at least
32 one control input, controls the nature of information displayed by the
33 video processor in response to changes in the character of the input
34 signal, including changing between said modes.

2(cancelled).

1 3(currently amended). The apparatus of claim 1 ~~-2~~, wherein the
2 video processor has a display mode wherein the full representation of the
3 video picture, the zoom image and the report of said video data characteristics
4 are presented at different parts of the display device and present progressively
5 smaller parts of the area of particular scrutiny.

1 4(original). The apparatus of claim 3, wherein the report includes a
2 tabular display of data respecting pixels at the area of particular scrutiny.

1 5(original). The apparatus of claim 4, wherein the tabular display of
2 data includes sample location information and color sample data.

1 6(original). The apparatus of claim 5, wherein the tabular display of
2 data includes a color swatch demonstrating the color sample data.

1 7(previously presented). The apparatus of claim 1, wherein the video
2 input signal contains a digital video signal with successive picture frames and
3 the video processor produces the formatted display repetitively for increments
4 of at least one frame, from one of discrete sample data and discrete color
5 state elements defining pixels in the video input signal.

1 8(previously presented). The apparatus of claim 1, wherein the video
2 processor produces the formatted display for increments of at least one frame
3 from one of discrete sample data and discrete color state elements defining
4 pixels in the video input signal.

1 9(previously presented). The apparatus of claim 1, wherein the video
2 processor is operable to resize at least part of the video picture for
3 presentation in part of an area of the formatted display that occupies less than
4 a full area of the formatted display, and wherein resizing by the video
5 processor includes at least one of recalculating pixel values, sampling pixel
6 values and reading out selected pixel values.

1 10(previously presented). The apparatus of claim 1, wherein the
2 control input is operable by a user manually to select from the video input
3 signal an area to be the area of particular scrutiny, and wherein the video
4 processor is operable simultaneously to present the video picture and the
5 zoom image including the area of particular scrutiny, in different areas of said
6 formatted display.

1 11(previously presented). The apparatus of claim 1, wherein the video
2 processor allots the formatted display to accommodate said changeable
3 selection.

1 12(currently amended). The apparatus of claim 1, wherein the video
2 processor is operable responsive to the control input to define the
3 predetermined criteria upon which the **formatted display is changed**
4 **between said modes** ~~video processor is operable automatically to change the~~
5 ~~area of particular scrutiny and to select said changeable selection of the~~
6 ~~formatted display.~~

1 13(currently amended). The apparatus of claim 12, further wherein
2 the controller and the video processor are operable to coordinate between
3 automatic and manual selection of the area of particular scrutiny, wherein one
4 of said manual selection and said automatic selection supersedes an other of
5 said manual selection and said automatic selection for a limited period of time
6 after said changing of the formatted display by the video processor when the
7 predetermined criteria are met.

1 14(original). The apparatus of claim 13, wherein the selection criteria
2 for said automatic selection include a color gamut value criterion having at
3 least one threshold value such that a value meeting the threshold value
4 criterion is selected for particular scrutiny.

Claims 15-25 have been canceled.

* * *